

We claim:

1. A conductive material comprising:

at least two crystallized electron pairs; and

5 a matrix comprising positive charges, each of said crystallized electron pairs having charge $-2e$ and spin 1.

2. A method for producing a conductive material, comprising the steps of:

(a) forming an initial molecular medium comprising chemical precursors of a

10 charge transfer complex;

(b) adding a doping agent;

(c) permitting said precursors and said doping agent to form a charge transfer complex having at least one positively charged group and at least one negatively charged group, said positively charged group close to said negatively charged group, forming at

15 least one charge transfer complex in a matrix; and

(d) separating said positively charged group and said negatively charged group.

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